



# The Case of the Golden Anchovy

Grade 3 math · Subtraction, Addition, Multiplication, Rounding, Division · Reading level grades 3-4

**Detective:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Oh no! The legendary Golden Anchovy trophy has been stolen right out of the display case at Cheesy Valley Headquarters! The thief left a messy trail of flour and empty delivery boxes. It must be one of our own delivery drivers! Use your math skills to help us crack the clues and catch the culprit before they deliver the trophy to a rival pizzeria!

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

**My answer: the The Pizza Pirate is** \_\_\_\_\_

## Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME             | DELIVERY RIDE        | PIZZA BONUS     | SIGNATURE HAND        | HAIR STYLE    | DELIVERY FEAR   |
|------------------|----------------------|-----------------|-----------------------|---------------|-----------------|
| Saucy Sally      | Rocket Skateboard    | Spicy Peppers   | Left handed delivery  | Curly Hair    | Deep Potholes   |
| Anita Anchovy    | Turbo Scooter        | Fizzy Soda      | Left handed delivery  | Curly Hair    | Deep Potholes   |
| Scooter Scott    | Rocket Skateboard    | Garlic Knots    | Left handed delivery  | Straight Hair | Stuck Elevators |
| Calzone Carl     | Sleek Go-Kart        | Cheesy Bread    | Left handed delivery  | Curly Hair    | Deep Potholes   |
| Olivia Olive     | Speedy Bicycle       | Fizzy Soda      | Right handed delivery | Spiky Hair    | Stuck Elevators |
| Garlic Gary      | Speedy Bicycle       | Fizzy Soda      | Right handed delivery | Curly Hair    | Barking Dogs    |
| Pepperoni Pete   | Rocket Skateboard    | Garlic Knots    | Right handed delivery | Curly Hair    | Deep Potholes   |
| Vinnie Veggie    | Classic Delivery Van | Cheesy Bread    | Right handed delivery | Spiky Hair    | Barking Dogs    |
| Mamma Margherita | Turbo Scooter        | Fizzy Soda      | Right handed delivery | Straight Hair | Barking Dogs    |
| Patsy Pesto      | Turbo Scooter        | Cinnamon Sticks | Left handed delivery  | Curly Hair    | Stuck Elevators |
| Bella Basil      | Classic Delivery Van | Cheesy Bread    | Left handed delivery  | Curly Hair    | Deep Potholes   |
| Penny Pineapple  | Classic Delivery Van | Cinnamon Sticks | Right handed delivery | Spiky Hair    | Barking Dogs    |
| Freddy Freebie   | Rocket Skateboard    | Cinnamon Sticks | Left handed delivery  | Curly Hair    | Deep Potholes   |
| Tony Tomato      | Speedy Bicycle       | Cinnamon Sticks | Left handed delivery  | Spiky Hair    | Deep Potholes   |
| Ancho Andy       | Speedy Bicycle       | Spicy Peppers   | Right handed delivery | Spiky Hair    | Stuck Elevators |
| Mozzarella Mia   | Classic Delivery Van | Garlic Knots    | Left handed delivery  | Curly Hair    | Stuck Elevators |
| Gino Giovanni    | Speedy Bicycle       | Cinnamon Sticks | Right handed delivery | Curly Hair    | Deep Potholes   |
| Paolo Parmesan   | Classic Delivery Van | Garlic Knots    | Left handed delivery  | Spiky Hair    | Barking Dogs    |
| Slice Sam        | Speedy Bicycle       | Fizzy Soda      | Left handed delivery  | Spiky Hair    | Stuck Elevators |
| Crusty Chris     | Speedy Bicycle       | Fizzy Soda      | Right handed delivery | Curly Hair    | Deep Potholes   |
| Dina Delivery    | Sleek Go-Kart        | Cinnamon Sticks | Left handed delivery  | Curly Hair    | Barking Dogs    |

## CLUE 1

## Subtraction

Chef Luigi counts the pizza boxes left in the warming oven. Some are missing! We can subtract the remaining boxes from the morning total to find our first clue.

Solve each problem, then write its letter in every clue box that shows the same number.

|              |             |             |              |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <div>T</div> | <div></div> | <div></div> | <div>T</div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 742          | 360         | 281         | 742          | 360         | 818         | 281         | 166         | 196         | 818         | 196         | 738         | 534         | 742         | 263         | 408         | 375         | 375         | 730         |             |
| <div></div>  | <div></div> | <div></div> | <div></div>  | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| 513          | 798         | 818         | 263          | 730         | 798         | 281         | 798         | 798         | 281         | 375         | 513         |             |             |             |             |             |             |             |             |

$1097 - 355 = \square \rightarrow \boxed{\text{T}}$

$933 - 115 = \square \rightarrow \boxed{\text{I}}$

$754 - 394 = \square \rightarrow \boxed{\text{H}}$

$577 - 64 = \square \rightarrow \boxed{\text{S}}$

$574 - 199 = \square \rightarrow \boxed{\text{R}}$

$790 - 52 = \square \rightarrow \boxed{\text{N}}$

$1196 - 398 = \square \rightarrow \boxed{\text{P}}$

$580 - 46 = \square \rightarrow \boxed{\text{O}}$

$601 - 320 = \square \rightarrow \boxed{\text{E}}$

$647 - 384 = \square \rightarrow \boxed{\text{C}}$

$566 - 370 = \square \rightarrow \boxed{\text{D}}$

$225 - 59 = \square \rightarrow \boxed{\text{F}}$

$1039 - 309 = \square \rightarrow \boxed{\text{Y}}$

$517 - 109 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

## CLUE 2 Addition

Let us tally up the delivery tips left on the kitchen counter! Adding up all these dollar bills gives us a clue about the thief's delivery style.

Solve each problem, then write its letter in every clue box that shows the same number.

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| T   |     |     |     |     |     |     |     |     | T   |     |     |     |     |     |     |     |     |  |
| 603 | 596 | 562 | 656 | 782 | 800 | 817 | 226 | 603 | 895 | 552 | 562 | 447 | 226 | 656 |     |     |     |  |
|     |     |     | T   | T   |     |     |     |     | T   |     | T   |     |     |     |     |     | T   |  |
| 447 | 552 | 782 | 603 | 603 | 562 | 817 | 447 | 782 | 603 | 596 | 603 | 596 | 562 | 435 | 562 | 423 | 603 |  |
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 596 | 226 | 817 | 253 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

|                                     |                                     |                                     |
|-------------------------------------|-------------------------------------|-------------------------------------|
| $319 + 284 = \square \rightarrow$ T | $78 + 148 = \square \rightarrow$ A  | $367 + 195 = \square \rightarrow$ E |
| $173 + 262 = \square \rightarrow$ L | $260 + 187 = \square \rightarrow$ W | $128 + 295 = \square \rightarrow$ F |
| $273 + 509 = \square \rightarrow$ I | $308 + 348 = \square \rightarrow$ S | $155 + 98 = \square \rightarrow$ D  |
| $302 + 250 = \square \rightarrow$ R | $458 + 437 = \square \rightarrow$ U | $261 + 335 = \square \rightarrow$ H |
| $534 + 266 = \square \rightarrow$ G | $478 + 339 = \square \rightarrow$ N |                                     |

Scratch space:

## Multiplication facts (1-12)

The delivery scooters are parked in neat equal rows in the garage. Multiply the rows of scooters by the number in each row to uncover a clue about their cap!

Solve each problem, then write its letter in every clue box that shows the same number.

Diagram illustrating a sequence of numbers arranged in two rows, with specific boxes highlighted (shaded orange) containing the letter 'T'.

Top Row (18 boxes):

- Box 1: T
- Box 2: 22
- Box 3: 54
- Box 4: 14
- Box 5: 77
- Box 6: 5
- Box 7: 45
- Box 8: 45
- Box 9: 72
- Box 10: 5
- Box 11: 121
- Box 12: 49
- Box 13: 48
- Box 14: 14
- Box 15: 8
- Box 16: 77
- Box 17: 14
- Box 18: 6
- Box 19: T
- Box 20: 22
- Box 21: 21

Bottom Row (14 boxes):

- Box 1: 72
- Box 2: 77
- Box 3: 21
- Box 4: 5
- Box 5: 6
- Box 6: 6
- Box 7: 14
- Box 8: T
- Box 9: 14
- Box 10: 132
- Box 11: 132
- Box 12: 21
- Box 13: 22
- Box 14: 54
- Box 15: 21
- Box 16: 45
- Box 17: 14
- Box 18: 49

$$2 \times 11 = \boxed{\phantom{00}} \rightarrow \boxed{\text{T}}$$

$$7 \times 11 = \boxed{\phantom{00}} \rightarrow \left[ \begin{array}{c} \mathbf{v} \\ \mathbf{v} \end{array} \right]$$

$$8 \times 1 = \boxed{\phantom{000}} \rightarrow \boxed{\text{R}}$$

$1 \times 5 = \boxed{\phantom{00}} \rightarrow \boxed{1}$

$7 \times 7 =$    $\rightarrow$  **S**

$7 \times 2 = \boxed{\phantom{00}} \rightarrow \boxed{\text{E}}$

$11 \times 12 = \boxed{\phantom{000}} \rightarrow \boxed{\text{P}}$

$$11 \times 11 = \boxed{\phantom{00}} \rightarrow \boxed{\mathbf{N}}$$

$$7 \times 3 = \boxed{\phantom{00}} \rightarrow \boxed{0}$$

$9 \times 5 = \square \rightarrow \boxed{\text{L}}$

$2 \times 3 = \square \rightarrow \boxed{\mathbf{D}}$

$9 \times 6 = \square \rightarrow \boxed{\text{H}}$

$12 \times 4 = \square \rightarrow \boxed{\text{W}}$

$9 \times 8 =$    $\rightarrow$  **A**

Scratch space:

## CLUE 4 Rounding

The delivery tracking map is a bit blurry. We have to round the delivery distance to the nearest ten miles to find the route of the suspect!

Solve each problem, then write its letter in every clue box that shows the same number.

|     |      |     |      |      |      |     |     |     |      |      |     |     |     |      |      |     |      |     |      |
|-----|------|-----|------|------|------|-----|-----|-----|------|------|-----|-----|-----|------|------|-----|------|-----|------|
| C   |      |     |      |      |      |     |     |     |      |      |     |     |     |      |      |     |      |     |      |
| 700 | 8000 | 200 | 6000 | 90   | 30   | 400 | 60  | 200 | 4000 | 80   | 200 | 400 | 500 | 2000 | 4000 | 600 | 9000 | 200 | 9000 |
|     |      |     |      |      |      |     |     |     |      |      |     |     |     |      |      |     |      |     |      |
| 40  | 500  | 80  | 30   | 9000 | 3000 | 60  | 300 | 300 | 400  | 5000 | 40  | 800 |     |      |      |     |      |     |      |

Round 718 to the nearest hundred  → **C**

Round 8,613 to the nearest thousand  → **E**

Round 620 to the nearest hundred  → **W**

Round 829 to the nearest hundred  → **X**

Round 241 to the nearest hundred  → **R**

Round 40 to the nearest ten  → **O**

Round 458 to the nearest hundred  → **N**

Round 432 to the nearest hundred  → **A**

Round 28 to the nearest ten  → **H**

Round 8,441 to the nearest thousand  → **U**

Round 91 to the nearest ten  → **Y**

Round 2,257 to the nearest thousand  → **D**

Round 5,429 to the nearest thousand  → **B**

Round 57 to the nearest ten  → **I**

Round 331 to the nearest hundred  → **Z**

Round 3,163 to the nearest thousand  → **P**

Round 5,821 to the nearest thousand  → **L**

Round 3,820 to the nearest thousand  → **S**

Round 78 to the nearest ten  → **T**

Scratch space:

**CLUE 5****Division facts (1-12) - the last clue**

It is time to share the giant leftover pizza! We must divide the slices equally among our team to unlock the final secret clue.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

**Step 1 - solve these:**

$70 \div 10 = \boxed{\phantom{00}}$

$120 \div 12 = \boxed{\phantom{00}}$

$36 \div 6 = \boxed{\phantom{00}}$

$24 \div 12 = \boxed{\phantom{00}}$

$120 \div 10 = \boxed{\phantom{00}}$

$36 \div 4 = \boxed{\phantom{00}}$

$30 \div 6 = \boxed{\phantom{00}}$

$24 \div 6 = \boxed{\phantom{00}}$

$8 \div 8 = \boxed{\phantom{00}}$

$6 \div 2 = \boxed{\phantom{00}}$

$99 \div 9 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain zooms away on a turbo scooter, then hands out extra cheesy bread.
2. The villain drives a speedy delivery van, then tosses fresh garlic knots.
3. The villain zooms away on a turbo scooter, then accidentally drops spicy peppers.
4. The villain pedals fast on a rocket skateboard, then hands out extra cheesy bread.
5. The villain pedals fast on a rocket skateboard, then tosses fresh garlic knots.
6. The villain drives a speedy delivery van, then hands out extra cheesy bread.
7. The villain zooms away on a turbo scooter, then knocks over a fizzy soda.
8. The villain races in a sleek go-kart, then hands out extra cheesy bread.
9. The villain races in a sleek go-kart, then tosses fresh garlic knots.
10. The villain pedals fast on a rocket skateboard, then leaves behind sweet cinnamon sticks.
11. The villain drives a speedy delivery van, then leaves behind sweet cinnamon sticks.
12. The villain zooms away on a turbo scooter, then tosses fresh garlic knots.

# Answer Key

## The Case of the Golden Anchovy

### Culprit: Calzone Carl

Sleek Go-Kart · Cheesy Bread · Left handed delivery · Curly Hair · Deep Potholes

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

#### Clue 1 (Subtraction): "THE THIEF DID NOT CARRY SPICY PEPPERS"

$1097 - 355 = 742$  (T) ·  $933 - 115 = 818$  (I) ·  $754 - 394 = 360$  (H) ·  $577 - 64 = 513$  (S) ·  $574 - 199 = 375$  (R) ·  $790 - 52 = 738$  (N) ·  $1196 - 398 = 798$  (P) ·  $580 - 46 = 534$  (O) ·  $601 - 320 = 281$  (E) ·  $647 - 384 = 263$  (C) ·  $566 - 370 = 196$  (D) ·  $225 - 59 = 166$  (F) ·  $1039 - 309 = 730$  (Y) ·  $517 - 109 = 408$  (A)

#### Clue 2 (Addition): "THE SIGNATURE WAS WRITTEN WITH THE LEFT HAND"

$319 + 284 = 603$  (T) ·  $78 + 148 = 226$  (A) ·  $367 + 195 = 562$  (E) ·  $173 + 262 = 435$  (L) ·  $260 + 187 = 447$  (W) ·  $128 + 295 = 423$  (F) ·  $273 + 509 = 782$  (I) ·  $308 + 348 = 656$  (S) ·  $155 + 98 = 253$  (D) ·  $302 + 250 = 552$  (R) ·  $458 + 437 = 895$  (U) ·  $261 + 335 = 596$  (H) ·  $534 + 266 = 800$  (G) ·  $478 + 339 = 817$  (N)

#### Clue 3 (Multiplication facts (1-12)): "THE VILLAIN SWERVED TO AVOID DEEP POTHOLES"

$2 \times 11 = 22$  (T) ·  $7 \times 11 = 77$  (V) ·  $8 \times 1 = 8$  (R) ·  $1 \times 5 = 5$  (I) ·  $7 \times 7 = 49$  (S) ·  $7 \times 2 = 14$  (E) ·  $11 \times 12 = 132$  (P) ·  $11 \times 11 = 121$  (N) ·  $7 \times 3 = 21$  (O) ·  $9 \times 5 = 45$  (L) ·  $2 \times 3 = 6$  (D) ·  $9 \times 6 = 54$  (H) ·  $12 \times 4 = 48$  (W) ·  $9 \times 8 = 72$  (A)

#### Clue 4 (Rounding): "CURLY HAIR STRANDS WERE ON THE PIZZA BOX"

Round 718 to the nearest hundred = 700 (C) · Round 8,613 to the nearest thousand = 9000 (E) · Round 620 to the nearest hundred = 600 (W) · Round 829 to the nearest hundred = 800 (X) · Round 241 to the nearest hundred = 200 (R) · Round 40 to the nearest ten = 40 (O) · Round 458 to the nearest hundred = 500 (N) · Round 432 to the nearest hundred = 400 (A) · Round 28 to the nearest ten = 30 (H) · Round 8,441 to the nearest thousand = 8000 (U) · Round 91 to the nearest ten = 90 (Y) · Round 2,257 to the nearest thousand = 2000 (D) · Round 5,429 to the nearest thousand = 5000 (B) · Round 57 to the nearest ten = 60 (I) · Round 331 to the nearest hundred = 300 (Z) · Round 3,163 to the nearest thousand = 3000 (P) · Round 5,821 to the nearest thousand = 6000 (L) · Round 3,820 to the nearest thousand = 4000 (S) · Round 78 to the nearest ten = 80 (T)

#### Clue 5 (Division facts (1-12)): surviving statement is box 8 → Calzone Carl

$70 \div 10 = 7$  ·  $120 \div 12 = 10$  ·  $36 \div 6 = 6$  ·  $24 \div 12 = 2$  ·  $120 \div 10 = 12$  ·  $36 \div 4 = 9$  ·  $30 \div 6 = 5$  ·  $24 \div 6 = 4$  ·  $8 \div 8 = 1$  ·  $6 \div 2 = 3$  ·  $99 \div 9 = 11$